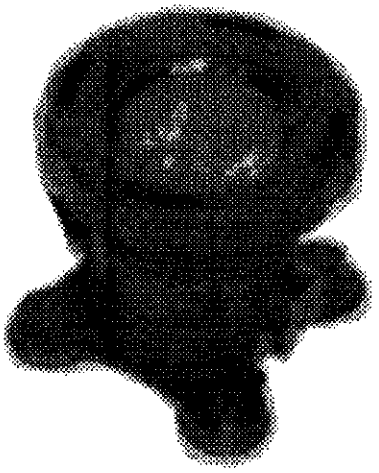
SUBMERSIBLE SPOTLIGHT
20 WATTS
Model 47604

ASSEMBLY and OPERATING INSTRUCTIONS



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Specifications

Replaceable Bulb	20 Watt, 12 Volt, 2 Pin Halogen
Dimensions	2-1/2" Square x 2-1/2" H
AC/DC AdapterDimensions	2-1/8' W x 3" L x 2" Deep (not waterproof/weatherproof)
Lenses	15 power, 2" OD x 1-11/16" ID
Accessories: Five Lenses (Red, Orange, Green, Blue, and Clear), Base for vertical and horizontal mounting.	

Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

Safety Warnings and Precautions

WARNING: When using this product, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Keep work area clean**. Cluttered areas invite injuries.
2. **Observe work area conditions**. The Adapter (#8) must be kept dry at all times. Don't expose to rain. Keep work area well lighted. Do not use electrically powered Adapters in the presence of flammable gases or liquids.
3. **Keep children away**. Children must never be allowed in the work area. Do not let them handle Spotlight.
4. **Store idle equipment**. When not in use, the Adapter must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **Use the right Spotlight for the job**. Do not attempt to force a small Spotlight to do the work of a larger industrial Spotlight. There are certain applications for which this Spotlight was designed. Do not modify this Spotlight and do not use this produt for a purpose for which it was not intended .
6. **Dress properly**. Protective, electrically non-conductive clothes and non-skid, rubber soled footwear are recommended when working. Wear restrictive hair covering to contain long hair.
7. **Use eye protection**. Always wear ANSI approved impact safety goggles.
8. **Do not overreach**. Keep proper footing and balance at all times. Do not reach over or across Spotlight or cables. Do not reach into water to touch the Spotlight while it is plugged into an electrical outlet.

9. **Maintain tools with care.** Inspect tool cords periodically, and if damaged, have them repaired by an authorized technician.

10. **Disconnect power.** Unplug adapter when not in use.

11. **Stay alert.** Watch what you are doing, use common sense. Do not assemble Spotlight when you are tired.

12. **Check for damaged parts.** Before using Spotlight, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician.

13. **Guard against electric shock.** Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures.

14. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.

15. **Do not set up the Spotlight if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not assemble the Spotlight.

16. **Use proper size and type extension cord.** If an extension cord is required, it must be of the proper size and type to supply the correct current to the tool without heating up. Otherwise, the extension cord could melt and catch fire, or cause electrical damage to the tool. This tool requires use of an extension cord of **0 to 10 amps** capability (up to 50 feet), with wire size rated at **18 AWG.** Longer extension cords require larger size wire. If you are using the tool outdoors, use an extension cord rated for outdoor use. (signified by "WA" on the jacket). The Spotlight adapter must be used with a GCFI outlet (Ground Fault Circuit Interruptor). See page 4.

17. **Maintenance.** For your safety, maintenance should be performed regularly by a qualified technician.

18. **Pacemaker safety warning.** People with pacemakers should consult with their physician(s) before using this product; operation of equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

Warning! Avoid shock. Hands and feet should be dry before plugging or unplugging in the line cord to a GFCI outlet. Caution: The Spotlight is not suitable for use in swimming pools, swimming ponds, or other locations where persons could make bodily contact with the Submersible Spotlight.

Note: **Performance of this tool (if powered by line voltage) may vary depending on variations in local line voltage. Extension cord usage may also affect tool performance.**

Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

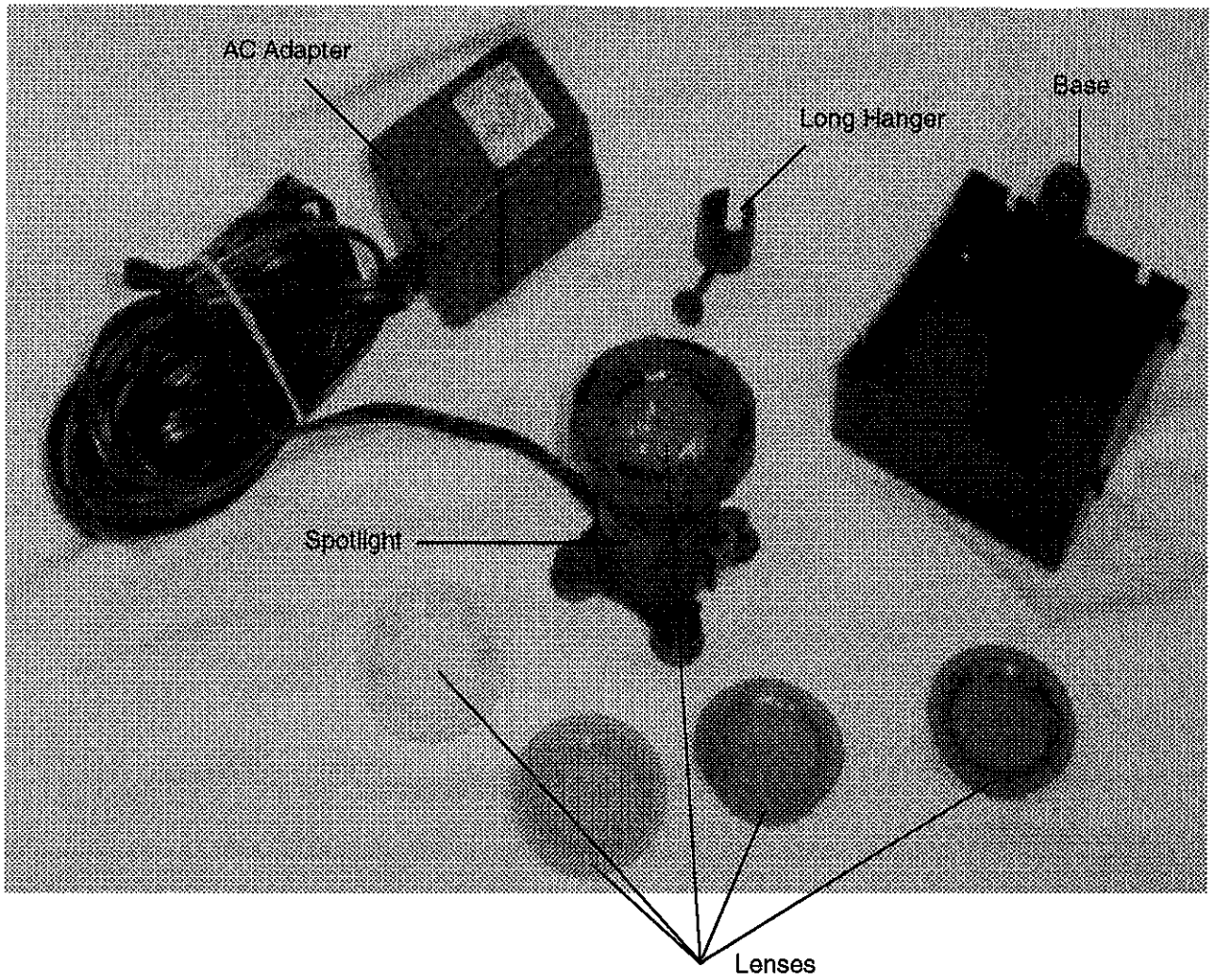
Note: Before using this Spotlight in conjunction with a pump or fountain (not included), make sure you read the entire instruction manual that came with the pump or fountain.

Note: Ground Fault Circuit Interruptor outlets are intended to add more safety when workin with electricity in wet areas. They protect against electrical shock caused by a faulty appliance or worn plugs and cords. The GFCI senses small changes in the current and will shut off power almost immediately.

Unpacking

When unpacking, check to make sure the parts listed on page 6 are included. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual as soon as possible.

FIGURE 1 - Spotlight Set



Operation

Note: When replacing bulbs or changing lenses, unplug the unit and remove it from the water.
Note: Before placing the unit in the water, make sure you choose a location that has a GCFI outlet that is in a covered, waterproof area, within the distance of the product cord length (19' 4"). The **Adapter (#8)** is not waterproof and must be kept dry at all times.
Note: The Spotlight must always be completely submerged in water when in use. Failure to submerge the entire unit will cause the **Bulb (#4)** to overheat and fail.
Note: Make sure the pond-bottom surface you choose to use is flat and level.
1. Choose which lens color you desire and unscrew the **Cover (#1)**. Place the **Lens (#2)** on the **Seal Ring (#3)** and replace the **Cover (#1)**.
2. Set the Spotlight in the water by using one of three Smethods:
A. Set the Spotlight on the Base (Accessory) by sliding it into the short hanger on the Base, connecting at the tab (see Assembly Drawing on page 6) on the **Case (#5)**. See FIGURES 2 and 3. In this application the Spotlight will rotate to your desired angle.

FIGURE 2

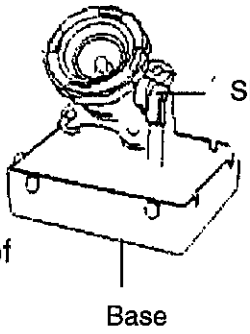
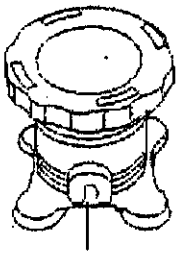


FIGURE 3

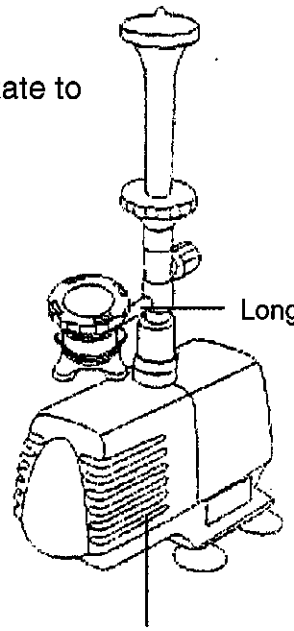


B. Set the four **Rubber Suction (#6)** cups in the slots on the bottom of the **Case (#5)** (see Assembly Drawing on page 6) and set the unit directly on the bottom of the pond. See FIGURE 3.
C. The circular band on the **Long Hanger (#7)** fits around the shaft of the fountain (See FIGURE 4), and the end of the **Long Hanger (#7)** fits into the connection point on the **Case (#5)**. See FIGURE 3.

Warning! Hands and feet should be dry before plugging or unplugging in the line cord to a GFCI outlet.

3. Run the cord with the **Adapter (#8)** to the waterproof location with the GCFI outlet. Plug in the unit.

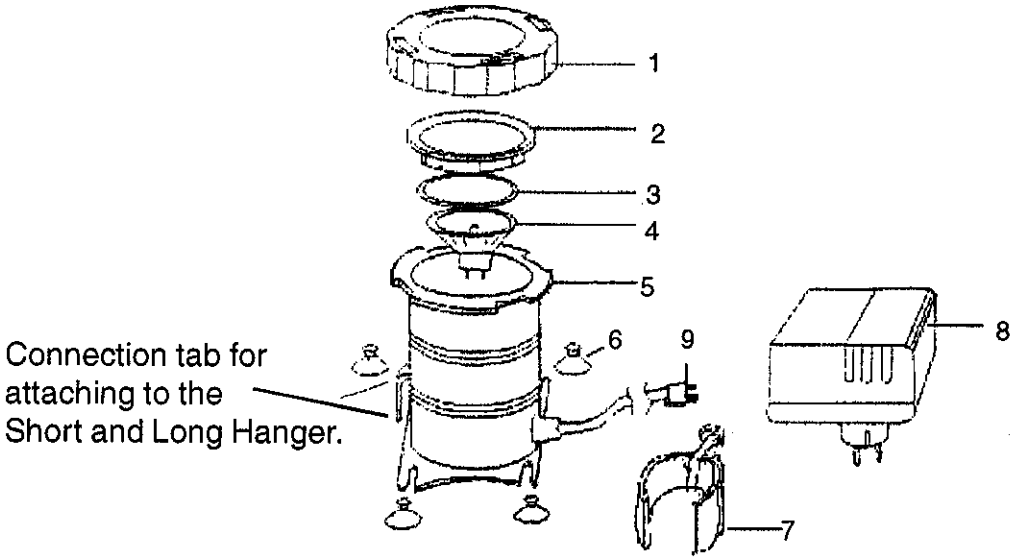
FIGURE 4



Maintenance

Note: The unit must be unplugged whenever performing maintenance.
1. Check the unit periodically making sure the **Cover (#1)** is securely fastened.
2. If the **Bulb (#4)** burns out, remove the **Cover (#1)**, the **Lens (#2)**, and the **Seal Ring (#3)**. Then gently pull and remove the old **Bulb (#4)**. Snap the two pins on the new **Bulb (#4)** into the receptacle on the **Case (#5)**. Replace the **Cover (#1)**, the **Lens (#2)**, and the **Seal Ring (#3)**. See Assembly Drawing on page 6.

Assembly Drawing



Note: Base and extra lenses not shown.

Parts List

Part No.	Description
1	Cover
2	Lens (5)
3	Seal Ring
4	Bulb
5	Case
6	Rubber Suction (4)
7	Long Hanger
8	Adapter
9	Cord

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

NOTE: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.